

Title (en)

DNA SEQUENCING WITH A T7-TYPE GENE 6 EXONUCLEASE.

Publication

EP 0598832 A4 19951025 (EN)

Application

EP 92918346 A 19920814

Priority

- US 9206826 W 19920814
- US 74519391 A 19910815
- US 92756292 A 19920806

Abstract (en)

[origin: WO9304184A1] Method for determining the nucleotide base sequence of DNA present in a lambda virus coat which is not replicable in a bacterial cell independent of any lambda DNA within that coat. The method includes preparing a lambda phage preparation containing the DNA, purifying the nucleic acid from the lambda phage to provide purified nucleic acid, and contacting that purified nucleic acid with a T7-type gene 6 exonuclease to allow the exonuclease to remove at least a portion of one strand of the DNA. The method further includes providing a primer able to hybridize with the other strand of the DNA complementary to the portion of the one strand and contacting the primer with the other strand of DNA in the presence of at least one deoxynucleoside triphosphate (dNTP) and at least one chain terminating agent (e.g., a dideoxynucleoside triphosphate, ddNTP) and a DNA polymerase, to allow the primer to be extended by the polymerase until extension is stopped by incorporation of the chain terminating agent.

IPC 1-7

C12P 19/34; C12Q 1/68

IPC 8 full level

C07K 14/01 (2006.01); **C12N 15/09** (2006.01); **C12N 15/10** (2006.01); **C12Q 1/68** (2006.01)

CPC (source: EP US)

C07K 14/005 (2013.01 - EP US); **C12N 15/10** (2013.01 - EP US); **C12Q 1/6869** (2013.01 - EP US); **C12N 2795/10322** (2013.01 - EP US); **Y10T 436/143333** (2015.01 - EP US)

Citation (search report)

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- See references of WO 9304184A1

Designated contracting state (EPC)

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